

## Fiscal Year 2003 SBIR/STTR Award Winners

<b>Company</b>	<b>Project Title</b>	<b>Contact Person</b>	<b>Type</b>	<b>Phase</b>	<b>Fed Agency</b>	<b>Amount</b>	<b>Investigator</b>
3D Molecular Designs, LLC	A Toober-Based Molecular Modeling Kit: A New Tool for Teaching Molecular Literacy	Diane Herman	SBIR	Phase I	NSF	\$99,738	Michael Patrick, Ph.D.
3D Molecular Designs, LLC	Low-Cost Physical Models of Proteins	Diane Herman	SBIR	Phase I	NIH - National Center for Research Resource	\$189,506	Michael Patrick, Ph.D.
3D Molecular Designs, LLC	Physical Models of Proteins by Rapid Prototyping	Diane Herman	SBIR	Phase II	NIH - National Center for Research Resource	\$108,000	Michael Patrick, Ph.D.
BellBrook Labs, LLC	Fluorescent HTS Assays for Human Sulfotransferases	Bob Lowery	SBIR	Phase I	NIGMS	\$207,918	Robert Lowery
BellBrook Labs, LLC	High Throughput Assays for Drug Glucuronidation	Bob Lowery	SBIR	Phase II	NIGMS	\$538,426	Robert Lowery
ConjuGon, Inc.	A new Biotherapeutic Approach to Combating Unwanted Bacteria	Sal Braico	SBIR	Phase I	NSF	\$99,657	Hideki Suzuki
Coolwater Aquaculture, LLC		Steve Genson	SBIR		NSF	\$100,000	Steve Genson
Cyber Defense Agency LLC		Dave Farrell	SBIR	Phase I	DOD - Air Force	\$99,974	Dave Farrell
DPSystems	Radio Frequency Motion Tracking System	David P. Engsborg	SBIR	Phase I	NIH	\$99,752	David P. Engsborg
DPSystems	Evaluator Training Manikin for Spasticity and Strength	David P. Engsborg	SBIR	Phase I	NIH	\$99,960	David P. Engsborg
Echelon 4 Corporation	Feasibility of Grid-based Real-time Command and Control	Jay S. Bayne, Ph.D.	SBIR	Phase I	Air Force Research Laboratory	\$90,640	Jay S. Bayne, Ph.D.
EraGen Biosciences, Inc.	Novel Assay Development of CFTR Genotyping	James Prudent	SBIR	Phase I	NIH	\$98,482	James Prudent
EraGen Biosciences, Inc.	Rapid and Inexpensive Multi-allele Cystic Fibrosis Assay	James Prudent	SBIR	Phase II	NIH	\$439,928	James Prudent
EraGen Biosciences, Inc.	Rapid Turn-around Testing for Bioweapons Agents	James Prudent	SBIR	Phase II	NIH	\$478,496	James Prudent
FlexTech Systems, Inc.	Managing Diabetes: Use of a Digital Intercom System	Stephen W. Flax	SBIR	Phase II	NIH	\$482,000	Stephen W. Flax
Frederick T. Elder & Associates		Frederick Elder	SBIR	Phase II	DOD - Air Force	\$750,000	Frederick Elder
GENETIC ASSEMBLIES, INC.	Oligonucleotide Error Filtering for Gene Synthesis	Cheryl Vickroy	SBIR	Phase I	NIH	\$100,000	James H. Kayson
GENETIC ASSEMBLIES, INC.	Optics Design for Development of a Massively Parallel Oligonucleotide Synthesizer	Cheryl Vickroy	STTR	Phase I	NSF	\$99,997	James Kayson
GWC Instruments	High sensitivity surface plasmon resonance bioarrays	Dr. Alastair Wark	SBIR	Phase I	NSF	\$99,800	Alastair Wark
GWC Technologies	Highly Sensitive Surface Plasmon Resonance Instrumentation for Detecting Biomolecular Interactions	Timothy G. Burland	SBIR	Phase I	NSF	\$99,724	Timothy G. Burland
Healthcare Technology Systems, Inc	Convenient, automated, objective measure of depression	James C. Mundt	SBIR	Phase I	NIMH (NIH)	\$262,150	James C. Mundt
Imago Scientific Instruments Corporation	Three-Dimensional Atom Probe Imaging for Nano-Biotechnology	Steven L. Goodman	SBIR	Phase II	NSF	\$499,850	Steven L. Goodman

Company	Project Title	ContactPerson	Type	Phase	FedAgency	Amount	Investigator
Infinity Healthcare	Creation of Massively-Scaleable Emergency Medical Resource Information Exchange System (MEMRIES) Based on an Entity-Attribute-Value (EAV) Database	Elizabeth Manchester	SBIR	Phase I	NSF	\$99,800	
Intact Solutions	Meshless Thermal Analysis of Vehicles Using Distance Fields	Micheal Freytag	SBIR	Phase I	Army	\$70,000	Michael Freytag
ioGenetics	Antibody-Biocide Fusions to Control Cryptosporidium	Dr. Michael Imboden	SBIR	Phase I	NIH	\$500,000	Michael Imboden
Jill Florence Lackey & Associates	Curriculum for Multimethod Rapid Ethnographic Assessment	Jill Florence Lackey, Ph.D.	SBIR Contract	Phase I	CDC	\$97,235	Jill Florence Lackey, Ph.D.
JunTech, Inc.	New Algorithms for PTZ Camera Based Object Tracking		SBIR	Phase I	NSF	\$100,000	Jun Zhang
LS Optimal	Advanced Planning and Scheduling Tools for Extended Enterprise Systems	Leyuan Shi	SBIR	Phase I	NSF	\$100,000	Guining Li
Lucigen Corporation	Single Cell Genomics Of Hyperthermophiles	David Mead, Ph.D.	SBIR	Phase II	DOE	\$750,000	David Mead
Lucigen Corporation	High Fidelity Genomic Cloning and Amplification	Ronald Godiska	SBIR	Phase I	NIH	\$99,510	Ronald Godiska
Microporous Oxides Science and Technology, LLC	Simultaneous Removal of Arsenite As(III) and Arsenate As(V) from Drinking Water Using a Novel Photoa	Walter Zeltner, Ph.D.	SBIR	Phase I	EPA	\$99,996	Walter Zeltner
Mirus Corporation	A new hepatocyte-specific ligand for gene delivery	Hans Herweijer	SBIR	Phase I	NIH	\$112,192	So M. Wong
Mirus Corporation	Smallpox treatment by RNA Interference	Hans Herweijer	SBIR	Phase I	NIH	\$117,698	Hans Herweijer
Mirus Corporation	siRNA for drug target validation in mammalian cells	Mary Phillips-Coyle	SBIR	Phase II	NCI	\$454,896	David L Lewis Ph.D.
The NeuronFarm	Training the Tutors (3T)	Ankur Malhotra	SBIR	Phase II	U.S. Department of Education - IES	\$500,000	Dr. Mina C. Johnson-Glenberg
The NeuronFarm	3D-Readers	Ankur Malhotra	SBIR	Phase II	National Institute of Health - NICHD	\$862,000	Mina C. Johnson-Glenberg, David Elderbrock
nPoint, Inc.	Subnanometer - Precision Positioning for Imaging Nanofabrication and Integration	Katerina Moloni, Ph.D.	SBIR	Phase II	DARPA	\$750,197	Katerina Moloni, Ph.D.
Orbital Technologies Corporation	Advanced Vortex Hybrid Propulsion System	Dr. Eric E. Rice	SBIR	Phase I	Air Force	\$100,000	Dr. Martin Chiaverini
Orbital Technologies Corporation	Modular Intelligent Hydrogen Transfer System	Dr. Eric Rice	SBIR	Phase I	Air Force	\$100,000	Dan Gramer
Orbital Technologies Corporation	Carbothermal Lunar Regolith Processing System	Dr. Eric Rice	SBIR	Phase I	NASA	\$70,000	Robert Gustafson
Orbital Technologies Corporation	Deployable Vegetable Production System	Dr. Eric Rice	SBIR	Phase I	NASA	\$70,000	Dr. Robert Morrow
Orbital Technologies Corporation	Tethered Artificial Gravity Spacecraft	Dr. Eric Rice	STTR	Phase I	NASA	\$100,000	Dan Gramer
Orbital Technologies Corporation	Stoichiometric Cold-Wall Rocket Engine	Dr. Eric Rice	SBIR	Phase II	DARPA	\$750,000	Chris St.Clair
Orbital Technologies Corporation	Wavelength-Agile Optical Rocket Propulsion Sensor (WORPS)	Dr. Eric Rice	STTR	Phase I	NASA	\$100,000	Dr. Martin Chiaverini
Orbital Technologies Corporation	Multimodal Activated Network of Tactile Interfaces for Advanced Computing with Haptics	Dr. Eric Rice	SBIR	Phase I	NSF	\$100,000	Thomas Crabb

<b>Company</b>	<b>Project Title</b>	<b>Contact Person</b>	<b>Type</b>	<b>Phase</b>	<b>Fed Agency</b>	<b>Amount</b>	<b>Investigator</b>
PercipEnz Technologies, Inc.	Phase 1: Technology for Managing Clinical Trials	Anthony O'Hare	SBIR	Phase II	NIH	\$749,357	Anthony O'Hare
PhysioGenix, Inc.	Combinatorial rat panels that genetically screen anthrax	Steven H. Nye	SBIR	Phase I	NIH	\$312,536	Steven H. Nye
PhysioGenix, Inc.	Combinatorial rat panels for pharmacogenetic effects	Steven H. Nye	SBIR	Phase II	NIH	\$934,275	Steven H. Nye
Platypus Technologies, LLC	Rubbed protein substrates for low cost biochips based on liquid crystals	Barbara A. Israel	SBIR	Phase II	NSF	\$500,000	Barbara A. Israel
Platypus Technologies, LLC	Nanostructured substrates for cell assays	Barbara A. Israel	SBIR	Phase I	NIH - NCI	\$347,426	Barbara A. Israel
Prairie Technologies, LLC	Noncontact Membrane Protein Probe	Daniel Van Der Weide	SBIR	Phase II	NIH	\$213,940	Daniel Van Der Weide
Procetus Biopharm, Inc.	ProDermX: Topical Protector Against Radiation Dermatitis	Bill Fahl	SBIR	Phase I	NIH	\$97,500	William E. Fahl
Promoter Neurosciences, LLC	Novel Drug Discovery Tools for Depression and Anxiety	Steven A. Nanda	SBIR	Phase I	NIH	\$131,414	Steven A. Nanda
Quantum Devices, Incorporated	Use of Light Emitting Diodes (LED) in Pathogen Elimination, Wound Healing and Tissue Regeneration	Ron Ignatius	SBIR	Phase II	DOD - DARPA	\$750,000	Todd Martin
Renovar, Inc.	Preventing Graft Rejection with Piceatannol	Stuart J. Knechtle	SBIR	Phase I	NIH	\$100,000	Huaizhong Hu
Renovar, Inc.	Detection of Multiple Anti-Viral Antibodies in One Assay		SBIR Contract		NIH	\$99,835	
Research Training Associates	Reliability Training in Autism Assessment Using New Technologies	Ken Kobak	SBIR Contract		NIH	\$98,695	
Scotch Hill Farms	Increasing Rural Impact and Sustainability of Farmstead Soap Production	Tony Ends	SBIR	Phase II	USDA	\$199,363	Tony Ends
Simulation Technology and Applied Research, Inc.	An Advanced Analysis Tool for Predicting Parasitic Oscillations in High Power Klystrons Using in Par	John F. DeFord	SBIR	Phase I	DOE	\$98,277	John F. DeFord
STRATATECH CORPORATION	Engineering a Human Organ for Dry Storage	Paul B. Conrad, Ph.D.	SBIR	Phase I	NIH - Dept. of Health and Human Services	\$99,802	Paul B. Conrad, Ph.D.
STRATATECH CORPORATION	Therapeutic Antimicrobial Human Skin Substitute	John M. Centanni, M.S.	STTR	Fast Track	NIH - Dept. of Health and Human Services	\$920,974	B. Lynn Allen-Hoffmann, Ph.D.
STRATATECH CORPORATION	Expression of Angiogenic Growth Factors in Keratinocytes	Allen R. Comer, Ph.D.	SBIR	Phase II	NIH - Dept. of Health and Human Services	\$763,581	Allen R. Comer, Ph.D.
STRATATECH CORPORATION	Technology for Room Temperature Storage of Living Human Cells and Organs	Paul B. Conrad, Ph.D.	ATP		NIST	\$1,999,608	Paul B. Conrad, Ph.D.
Stress Photonics Inc		Jon Lesniak	STTR		NSF	\$95,393	Jon Lesniak
The Madison Group	Development of Process Technology for Novel Polymer Based Microcellular Nanocomposites	Paul Gramann	SBIR	Phase I	NSF	\$100,000	Paul Gramann
Thinking Publications	Sound Contrasts in Phonology (SCIP)	Nancy L. McKinley	SBIR	Phase I	NIH	\$99,995	Nancy L. McKinley
Third Wave Technologies	Genetic Profiles for Perioperative Applications	Stephen Day	SBIR	Phase II	NIH	\$1,108,626	Monika DeArruda Indig
TomoTherapy Incorporated	Amorphous Selenium Imaging for Tomotherapy	Barb Zieme	SBIR	Phase II	NIH	\$493,068	Guang Fang

<b>Company</b>	<b>Project Title</b>	<b>ContactPerson</b>	<b>Type</b>	<b>Phase</b>	<b>FedAgency</b>	<b>Amount</b>	<b>Investigator</b>
Virent Energy Systems, Inc.	Production of Clean Fuels from Biomass: Aqueous Phase Catalytic Reforming of Oxygenated Hydrocarbons	Randy Cortright	STTR		NSF	\$99,900	Randy Cortright
Virent Energy Systems, Inc.	Integrated Reactor Design for Hydrogen Production from Biomass-Sourced Reactant via A.-Phase Carbohydrate Reforming Process	Randy Cortright	SBIR	Phase I	DOE	\$100,000	Randy Cortright
Virent Energy Systems, Inc.	Fuel Gas Regeneration from Biomass via Aqueous-Phase Carbohydrate Reforming (ACR) Processes	Randy Cortright	INI		DOE	\$40,000	Randy Cortright
Virent Energy Systems, Inc.	Small-Scale Hydrogen Generation via Aqueous-Phase Carbohydrate Reforming	Randy Cortright	ATP		NIST	\$1,972,703	Randy Cortright
Wicab, Inc.	Sensory Substitution for Vestibular Dysfunction	Mitchell E. Tyler	SBIR	Phase II	NIH - NIDCD	\$366,415	Mitchell E. Tyler
Wicab, Inc.	Sensory Substitution Systems for Blind Mobility	Mitchell E. Tyler	SBIR	Phase II	NIH - NEI	\$501,793	Mitchell E. Tyler
<b>Total Awarded</b>						<b>\$24,641,998</b>	

**For more information on the SBIR/STTR program, visit SBA's Office of Technology at [www.sba.gov/sbir/indexsbir-sttr.html](http://www.sba.gov/sbir/indexsbir-sttr.html)**

**[Back to WI SBA Opportunities](#)**